

US EPA ARCHIVE DOCUMENT

EFFICACY REVIEW

DATE: IN 08/29 OUT 08/29/79

FILE OR REG. NO. 100-597

PETITION OR EXP. PERMIT NO. 9F 2213

DATE DIV. RECEIVED May 18, 1979

DATE OF SUBMISSION May 17, 1979

DATE SUBMISSION ACCEPTED _____

TYPE PRODUCT(S): I, D, (H), F, N, R, S Herbicide

DATA ACCESSION NO(S). _____

PRODUCT MGR. NO. Willa Y. Garner (23)

PRODUCT NAME(S) Dual 8E

COMPANY NAME Ciba-Geigy

SUBMISSION PURPOSE Amend use on peanuts

CHEMICAL FORMULATION Metolachlor:2-chloro-N-(2-ethyl-6-methylphenyl)-
N-(2-methoxy-1-methylethyl)-acetamide - 86.4%
(8 lbs. a.i./gal)

200.0 Introduction

Ciba-Geigy is requesting amended registration of Dual 8E to include use either alone or in a sequence with Dyanap on peanuts (PP 9F2213).

Dual 8E alone and Dual 8E plus Dyanap tank-mix are currently registered for use on soybeans (EPA Registration No. 100-597). Dyanap is currently registered for use on peanuts at 6 qts/A (EPA Registration No. 400-75).

The proposed use pattern would allow postplant incorporated application of Dual 8E in addition to currently registered use patterns which are: preplant incorporated application and preemergence. Postplant application and incorporation are recommended to be made after planting, but before peanut seed germination. Recommended dosage of Dual 8E alone is 1.5-3 pts/A; however, breakdown of dosages according to soil texture and soil organic matter was not given in details as those on the currently registered soybean label. Weed species claimed to be controlled in peanuts by Dual 8E alone, are the same as those on the soybean label. Also, rotational crops recommendation are similar to those on the registered label except that replanting would include peanuts in addition to the currently approved corn and soybeans.

Proposed use pattern of Dual 8E/Dyanap sequential application would allow preplant incorporated or preemergence application of Dual 8E followed by preemergence to cracking time application of Dyanap. Recommended dosages are the same for each herbicide alone; i.e., 1.5-3 pts/A of Dual 8E followed by 6 qts/A of Dyanap alone. The company is claiming weed control of 32 species and partial control of 6 other species. Dual alone controls 16 of the 32 species and Dyanap alone controls the remaining 16 species. Also, Dual alone provides partial control of 3 species, and that the remaining species are new claims included in the list of partially controlled species. These are: black nightshade, coffeeweed, and sicklepod. Finally, rotational crops recommendation are similar to those on the registered soybean label where both herbicides are used in a tank-mix, except that replanting would include peanuts in addition to the currently approved corn and soybeans. It should be noted; however, that the company inserted a footnote allowing use of Dual 8E alone or the sequential treatment with Dyanap following preplant incorporated applications of the following herbicides: Balan at 3-4 qts/A; Cobex at 1.5-3 pts/A; Treflan at 1 pt/A; or Vernam at 2.34-3 pts/A.

201.0 Uses

As described above. Also, see attached label amendment.

202.0 Data Summary

No data were submitted. According to Ciba-Geigy, supporting data are on file in Greensboro, North Carolina.

203.0 Conclusions

203.1 Claims Supported

Proposed use of Dual 8E or Dual 8E/Dyanap sequential application to peanuts will be accepted after complying with the following label comments:

203.2 Label Comments

Dual Alone

1. Under postplant incorporated application, proposed label amendment must clarify the following: (a) planting to application and application to incorporation intervals; (b) seeding depth and incorporation depth; and, (c) the meaning of seed germination and how could it be determined in the field.
2. Label statement "Apply Dual 8E alone incorporated or preemergence _____ per acre"; may read "Apply Dual 8E alone as describe above using the appropriate rate from the following table". Then give breakdown of dosages according to soil texture and soil organic matter similar to those on the registered soybean label. Alternatively, you may reference Table 1 on the registered soybean label.
3. Label amendment must be explicit in describing: (a) the nature of diluent; (b) spray volume; and, (c) implement recommended for applying the herbicide; i.e., ground and/or aerial equipment.

Dual 8E/Dyanap Sequential Application

1. In situations where both herbicides are applied preemergence; label amendment must clarify: (a) which herbicide could be applied first; (b) planting to first herbicide application interval; and (c) first to second herbicide application interval.

sequential application

2. Delete footnote appearing on page 3 where use of Dual 8E or Dual 8 E/Dyanap ~~are~~ are recommended after preplant incorporated application of other herbicides. Alternatively, label amendment must be explicit in describing use pattern, claims, dosages, cautions, and precautions.
3. Label statement "Apply Dual 8E alone... on that label," may read "Apply Dual 8E alone as described according to ... on that label."
4. Label proposed amendment must be specific in describing: (a) the nature of diluent; (b) spray volume; and, (c) implement recommended for applying each herbicide; e.g., ground and/or aerial equipment.
5. Label amendment must define what is meant by cracking time; e.g., "5-7 days after planting."

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August 29, 1979

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